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OM protein - protein search, using swi model

Run on: June 25, 2003, 14:55:36 ; Search time 16.686 Seconds
(without alignments)
680.911 Million cell updates/sec

Title: US-09-622-613B-13

Perfect score: 582

Sequence: 1 MSDWLFQKKHLNTRDVC.....TFVCVENCQAPVHFVGVGHC 105

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 417779 seqs, 108206813 residues

Total number of hits satisfying chosen parameters: 417779

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published_Applications_AA:*

- 1: /cgn2_6/ptodata/1/pubppaa/US08_NEW_PUB.pep:*
- 2: /cgn2_6/ptodata/1/pubppaa/PCT_NEW_PUB.pep:*
- 3: /cgn2_6/ptodata/1/pubppaa/US06_NEW_PUB.pep:*
- 4: /cgn2_6/ptodata/1/pubppaa/US07_PUBCOMB.pep:*
- 5: /cgn2_6/ptodata/1/pubppaa/US07_PUBCOMB.pep:*
- 6: /cgn2_6/ptodata/1/pubppaa/PCTUS_PUBCOMB.pep:*
- 7: /cgn2_6/ptodata/1/pubppaa/US08_PUBCOMB.pep:*
- 8: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB.pep:*
- 9: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB.pep:*
- 10: /cgn2_6/ptodata/1/pubppaa/US09_PUBCOMB.pep:*
- 11: /cgn2_6/ptodata/1/pubppaa/US10_NEW_PUB.pep:*
- 12: /cgn2_6/ptodata/1/pubppaa/US10_PUBCOMB.pep:*
- 13: /cgn2_6/ptodata/1/pubppaa/US60_NEW_PUB.pep:*
- 14: /cgn2_6/ptodata/1/pubppaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	582	100.0	105	9	US-09-948-391A-13
2	578	99.3	105	9	US-09-948-391A-6
3	577	99.1	104	9	US-09-948-391A-11
4	573	98.5	127	9	US-09-948-391A-28
5	564	96.9	104	9	US-09-948-391A-2
6	564	96.9	104	9	US-09-948-391A-4
7	560	96.2	105	9	US-09-948-391A-8
8	560	96.2	111	9	US-09-948-391A-9
9	556	95.5	105	9	US-10-153-882-2
10	551	94.7	104	9	US-09-986-119-1
11	445	76.5	83	9	US-09-986-119-3
12	285.5	49.1	111	9	US-09-948-391A-26
13	280.5	48.2	110	9	US-09-948-391A-24
14	277.5	47.7	117	9	US-09-948-391A-21
15	277.5	47.7	117	9	US-09-948-391A-22
16	276.5	47.5	110	9	US-09-948-391A-15
17	275.5	47.3	111	9	US-09-948-391A-17
18	266.5	45.8	110	9	US-09-948-391A-19
19	157.5	27.1	169	12	US-10-016-447-2

20	128.5	22.1	124	12	US-10-016-447-5	Sequence 5, Appl
21	113	19.4	147	10	US-09-286-240-6	Sequence 6, Appl
22	113	19.4	147	10	US-09-863-777-2	Sequence 2, Appl
23	113	19.4	147	10	US-09-731-872-254	Sequence 254, App
24	112	19.2	124	9	US-09-981-286A-8	Sequence 8, Appl
25	99.5	17.1	131	12	US-10-016-447-6	Sequence 6, Appl
26	93.5	16.1	156	9	US-09-796-753-102	Sequence 118, App
27	93.5	16.1	156	9	US-09-796-753-118	Sequence 60, Appl
28	93.5	16.1	156	9	US-10-245-103-60	Sequence 60, Appl
29	93.5	16.1	156	9	US-10-245-107-60	Sequence 60, Appl
30	93.5	16.1	156	9	US-10-245-143-60	Sequence 60, Appl
31	93.5	16.1	156	9	US-10-245-171-60	Sequence 60, Appl
32	93.5	16.1	156	9	US-10-245-851-60	Sequence 60, Appl
33	93.5	16.1	156	9	US-10-245-883-60	Sequence 60, Appl
34	93.5	16.1	156	9	US-10-237-535-60	Sequence 60, Appl
35	93.5	16.1	156	9	US-10-238-183-60	Sequence 60, Appl
36	93.5	16.1	156	9	US-10-238-283-60	Sequence 60, Appl
37	93.5	16.1	156	9	US-10-238-370-60	Sequence 60, Appl
38	93.5	16.1	156	9	US-10-245-055-60	Sequence 60, Appl
39	93.5	16.1	156	9	US-10-245-147-60	Sequence 60, Appl
40	93.5	16.1	156	9	US-10-245-730-60	Sequence 60, Appl
41	93.5	16.1	156	9	US-10-245-739-60	Sequence 60, Appl
42	93.5	16.1	156	9	US-10-246-210-60	Sequence 60, Appl
43	93.5	16.1	156	9	US-10-239-196-60	Sequence 60, Appl
44	93.5	16.1	156	9	US-10-243-024-60	Sequence 60, Appl
45	93.5	16.1	156	9	US-10-243-409-60	Sequence 60, Appl

ALIGNMENTS

RESULT 1

US-09-948-391A-13
Sequence 13, Application US/09948391A
Publication No. US20030027311A1

GENERAL INFORMATION:

APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.

APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services

TITLE OF INVENTION: Recombinant Anti-Tumor Rases
FILE REFERENCE: 015280-343110US

CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27

PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17

NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 13
LENGTH: 105

TYPE: PRT
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
ribonuclease with Met at position 1 and Gln2ser

OTHER INFORMATION: substitution (recombinant Met(-1) RapiRL Q15)
US-09-948-391A-13

Query Match 100.0% Score 582, DB 9, Length 105;
Best Local Similarity 100.0% Pred. No. 2.5e-57;
Matches 105; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MSDWLFQKKHLNTRDVCNNIMSTNLFHCKDKNTFLYSPPEYKAKCKITISKVLT	60
DB	1	MSDWLFQKKHLNTRDVCNNIMSTNLFHCKDKNTFLYSPPEYKAKCKITISKVLT	60
QY	61	TSSEFYLSDCNNTSRPCKYKLEKSKNTFCVNCQAPVHFVGVGHC	105

APPLICANT: Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
PRIOR FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 104
TYPE: PRF
ORGANISM: Rana pipiens
FEATURE:
OTHER INFORMATION: ribonuclease (Rapr1)
US-09-948-391A-2

Query Match 96.9%; Score 564; DB 9; Length 104;
Best Local Similarity 99.1%; Pred. No. 2.5e-55;
Matches 102; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 3 DMLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEVKAICKGIASKNVLTTS 62
|||||
DB 2 DMLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEVKAICKGIASKNVLTTS 61
|||||
OY 63 EFTLSDCNVTSRPCKYKLRKSTNFTCVTCENQAPVHFVGVC 105
|||||
DB 62 EFTLSDCNVTSRPCKYKLRKSTNFTCVTCENQAPVHFVGVC 104
|||||

RESULT 6
US-09-948-391A-4
Sequence 4, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 4
LENGTH: 104
TYPE: PRF
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
ribonuclease with Met23Leu substitution
OTHER INFORMATION: (recombinant Rapr1 Met23Leu)
US-09-948-391A-4

Query Match 96.9%; Score 564; DB 9; Length 104;
Best Local Similarity 98.1%; Pred. No. 2.5e-55;
Matches 101; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

OY 3 DMLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEVKAICKGIASKNVLTTS 62
|||||
DB 2 DMLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEVKAICKGIASKNVLTTS 61
|||||

OY 63 EFTLSDCNVTSRPCKYKLRKSTNFTCVTCENQAPVHFVGVC 105
|||||
DB 62 EFTLSDCNVTSRPCKYKLRKSTNFTCVTCENQAPVHFVGVC 104
|||||

RESULT 7
US-09-948-391A-8
Sequence 8, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 8
LENGTH: 105
TYPE: PRF
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
ribonuclease with Met at position 1 and Met24Leu
OTHER INFORMATION: substitution (recombinant Met(-1) Rapr1 Met23Leu)
US-09-948-391A-8

Query Match 96.2%; Score 560; DB 9; Length 105;
Best Local Similarity 96.2%; Pred. No. 7e-55;
Matches 101; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

OY 1 MSDMLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEVKAICKGIASKNVLT 60
|||||
DB 1 MSDMLTFQKHLTNTRDVCNNIMSTNLFHCKDKNTFTYSRPEVKAICKGIASKNVLT 60
|||||
OY 61 TSEFYLSDCNVTSRPCKYKLRKSTNFTCVTCENQAPVHFVGVC 105
|||||
DB 61 TSEFYLSDCNVTSRPCKYKLRKSTNFTCVTCENQAPVHFVGVC 105
|||||

RESULT 8
US-09-948-391A-9
Sequence 9, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by The Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor RNase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 9
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana pipiens
OTHER INFORMATION: ribonuclease with (His)6 tag, Met at position 7
OTHER INFORMATION: and Met30Leu substitution (recombinant Met(-1))
US-09-948-391A-9

Query Match 96.2%; Score 560; DB 9; Length 111;
Best Local Similarity 96.2%; Pred. No. 7.3e-55;
Matches 101; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSDMLTFQKKHLNTRVDCCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLT 60
DB 7 MDMLTFQKKHLNTRVDCCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLT 66
QY 61 TSEFYISDCNVTSRPCKYKLLKSTNFCVTCENQAPVHFVGVC 105
DB 67 TSEFYISDCNVTSRPCKYKLLKSTNFCVTCENQAPVHFVGVC 111

RESULT 9

US-10-153-882-2
Sequence 2, Application US/10153882
Publication No. US20030099629A1
GENERAL INFORMATION:
APPLICANT: GOLDENBERG, David M.
APPLICANT: HANSEN, Hans
APPLICANT: LEUNG, Shui-on
TITLE OF INVENTION: RECOMBINANT ONCONASE, AND CHEMICAL CONJUGATES AND
FILE REFERENCE: 018733/0913
CURRENT APPLICATION NUMBER: US/10/153,882
CURRENT FILING DATE: 2002-05-24
PRIOR APPLICATION NUMBER: US/09/265,901
PRIOR FILING DATE: 1999-03-11
PRIOR APPLICATION NUMBER: US 60/077,557
PRIOR FILING DATE: 1998-03-11
NUMBER OF SEQ ID NOS: 12
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 105
TYPE: PRT
ORGANISM: Rana pipiens
US-10-153-882-2

Query Match 95.5%; Score 556; DB 9; Length 105;
Best Local Similarity 95.2%; Pred. No. 2e-54;
Matches 100; Conservative 2; Mismatches 3; Indels 0; Gaps 0;

QY 1 MSDMLTFQKKHLNTRVDCCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLT 60
DB 1 MDMLTFQKKHLNTRVDCCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLT 60
QY 61 TSEFYISDCNVTSRPCKYKLLKSTNFCVTCENQAPVHFVGVC 105
DB 61 TSEFYISDCNVTSRPCKYKLLKSTNFCVTCENQAPVHFVGVC 105

RESULT 10

US-09-986-119-1
Sequence 1, Application US/09986119
Publication No. US20020187153A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: Goldenberg, David M.
TITLE OF INVENTION: Immunotoxins Directed Against Malignant
Cells
NUMBER OF SEQUENCES: 3

CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/986,119
FILING DATE: 07-NO. US20020187153A1-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/09/071,672
FILING DATE: 01-MAY-1998

APPLICATION NUMBER: US 60/046,895
FILING DATE: 02-MAY-1997

ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver

REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 015280-325100S

TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200

TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 1:

SEQUENCE CHARACTERISTICS:
LENGTH: 104 amino acids

TYPE: amino acid
STRANDEDNESS: <Unknown>

TOPOLOGY: linear
MOLECULE TYPE: protein

FEATURE:
NAME/KEY: Modified-site

LOCATION: 1
OTHER INFORMATION: /product= "OTHER"

/note= "Xaa = Glu or pyroglutamic acid"

FEATURE:

NAME/KEY: protein

LOCATION: 1..104

OTHER INFORMATION: /note= "RNase A derived from
Rana pipiens, "onc protein"

SEQUENCE DESCRIPTION: SEQ ID NO: 1:

US-09-986-119-1

Query Match 94.7%; Score 551; DB 9; Length 104;
Best Local Similarity 96.1%; Pred. No. 6.9e-54;
Matches 99; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 3 DMLTFQKKHLNTRVDCCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLT 62
DB 2 DMLTFQKKHLNTRVDCCNNIMSTNLFHCKDKNTFTYSRPEPKAICKGIASKNVLT 61
QY 63 EFYISDCNVTSRPCKYKLLKSTNFCVTCENQAPVHFVGVC 105
DB 62 EFYISDCNVTSRPCKYKLLKSTNFCVTCENQAPVHFVGVC 104

RESULT 11

US-09-986-119-3
Sequence 3, Application US/09986119
Publication No. US20020187153A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: Goldenberg, David M.
TITLE OF INVENTION: Immunotoxins Directed Against Malignant
Cells
NUMBER OF SEQUENCES: 3
CORRESPONDENCE ADDRESS:

ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.30
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/986,119
FILING DATE: 07-NO. US20020187153A1-2001
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09/071,672
FILING DATE: 01-MAY-1998
APPLICATION NUMBER: US 60/046,895
FILING DATE: 02-MAY-1997
ATTORNEY/AGENT INFORMATION:
NAME: Weber, Ellen Lauver
REGISTRATION NUMBER: 32,762
REFERENCE/DOCKET NUMBER: 015280-325100S
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 93 amino acids
TYPE: amino acid
STRANDEDNESS: <Unknown>
TOPOLOGY: linear
MOLECULE TYPE: protein
FEATURE:
NAME/KEY: Protein
LOCATION: 1..83
OTHER INFORMATION: /note= "onc protein", positions 16-98
of SEQ ID NO:1*
SEQUENCE DESCRIPTION: SEQ ID NO: 3:
US-09-986-119-3
Query Match 76.5% Score 445; DB 9; Length 83;
Best Local Similarity 97.6% Pred. No. 3.2e-42;
Matches 81; Conservative 1; Mismatches 1; Indels 0; Gaps 0;
QY 17 DVDNNIMSTLFLHCKDKNTFTIYSRPEVKAICKIISKVLTTSFYLSDCNTSRPC 76
DB 1 DVDNNIMSTLFLHCKDKNTFTIYSRPEVKAICKIISKVLTTSFYLSDCNTSRPC 60
QY 77 KYLKKSTNTFCVTCENQAPVHF 99
DB 61 KYLKKSTNTFCVTCENQAPVHF 83
RESULT 12
US-09-948-391A-26
Sequence 26, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by the Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor Rnase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26

PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO: 26
LENGTH: 111
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
catesbeiana ribonuclease with Met at position 1
OTHER INFORMATION: and Glnzser substitution (Met-1) RacOR1 Q1S)
US-09-948-391A-26
Query Match 49.1% Score 285.5; DB 9; Length 111;
Best Local Similarity 50.0% Pred. No. 2.3e-24;
Matches 56; Conservative 15; Mismatches 32; Indels 9; Gaps 4;
QY 1 MSDWLTFOKKHLTNTRDVDCNNIMSTNLF---HCKDKNTFTIYSRPEVKAICKIISK 56
DB 1 MSNMTFFQCKHINT-PIICNTIMDNNTIYIGGCKRNVTFISSATVKAICTGVI-NM 58
QY 57 NVLTTSFYLSDC---NVTSPCKYKLLKSTNTFCVTCENQAPVHFGVGH 105
DB 59 NVLTTRFOLNCTRTSITPRCPYSSRTETVYICVGCENQAPVHFGIGRC 110
RESULT 13
US-09-948-391A-24
Sequence 24, Application US/09948391A
Publication No. US20030027311A1
GENERAL INFORMATION:
APPLICANT: Rybak, Susanna M.
APPLICANT: Newton, Dianne L.
APPLICANT: The United States of America
APPLICANT: as represented by the Secretary of the
Department of Health and Human Services
TITLE OF INVENTION: Recombinant Anti-Tumor Rnase
FILE REFERENCE: 015280-343110US
CURRENT APPLICATION NUMBER: US/09/948,391A
CURRENT FILING DATE: 2002-05-10
PRIOR APPLICATION NUMBER: US 60/079,751
PRIOR FILING DATE: 1998-03-27
PRIOR APPLICATION NUMBER: WO PCT/US99/06641
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: US 09/622,613
PRIOR FILING DATE: 2000-08-17
NUMBER OF SEQ ID NOS: 43
SOFTWARE: Patent In Ver. 2.0
SEQ ID NO: 24
LENGTH: 110
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Rana
catesbeiana ribonuclease with Glnzser substitution
OTHER INFORMATION: (recombinant RacOR1 Q1S)
US-09-948-391A-24
Query Match 48.2% Score 280.5; DB 9; Length 110;
Best Local Similarity 49.5% Pred. No. 8.2e-24;
Matches 55; Conservative 15; Mismatches 32; Indels 9; Gaps 4;
QY 2 SDWLTFOKKHLTNTRDVDCNNIMSTNLF---HCKDKNTFTIYSRPEVKAICKIISK 57
DB 1 SNMATEFQCKHINT-PIICNTIMDNNTIYIGGCKRNVTFISSATVKAICTGVI-NMN 58
QY 58 VLTTSFYLSDC---NVTSPCKYKLLKSTNTFCVTCENQAPVHFGVGH 105
DB 59 VLTTRFOLNCTRTSITPRCPYSSRTETVYICVGCENQAPVHFGIGRC 109
RESULT 14

```

; OTHER INFORMATION: cathepsinA ribonuclease with (His)6 tag, Met at
; OTHER INFORMATION: position 7, Met23Leu and Met58Leu substitutions
; OTHER INFORMATION: (recombinant Met(-1) RaCor1 Met23Leu Met57Leu-(His)6)
US-09-948-331A-22

Query Match          47.7%: Score 277.5: DB 9: Length 117:
Best Local Similarity 48.2%: Pred. No. 1.9e-23:
Matches 54: Conservative 16: Mismatches 33: Indels 9: Gaps 4

OY 1 MSDWLTFQKKHLJTRDYDCNNINMSTNLF---HCKDKNTFTIYSRPEPKAIKGIASK 56
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 7 MGNWATFQOKKHIMT-PLICNTIILDNINIIYIGGGCKRRNFELISSATTVKAIICVIT-NL 64
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

OY 57 NVLITTSERYLSDC---NVTSRPCKYIKLKKSNTNTEFCVTCENAPVHFGVGHC 105
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 65 NVLSTTRQLNCTRTSITPRPCPSYSTRTEINIVLCVCKENQYPVHFAIGRC 116
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Search completed: June 25, 2003, 15:42:15
Job time : 16.686 secs

```

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Search completed: June 25, 2003, 15:42:15
Job time : 16.686 secs
```

	Query Match	47.7%	Score 277.5	DB 9	Length 117
	Best Local Similarity	48.2%	Pred. No. 1.9e-23		
	Matches	54	Conservative 16	Mismatches 33	Indels 9
				Gaps	4
OY	1	MSDWLTFQKKALTVRDVDCNNIMSTNLF----	HCKDKNTFYLSRPPYKAIICKIILASK	56	
		I : I : I : I : I : I : I : I : I : I :	:	I : I : I : I : I : I :	
Dd	7	MGNMATTPOAKHIIINT-PLICCTIILDNNIYIYGCGCKRVNFTFISSATTVKICITCVI-NL	64		
OY	57	NVLTTSEFYSLSDC--NVTSRPCKRYKLKSKTSTFCVTEENADPAVFVGVC	105		
		I : I : I : I : I : I : I : I : I : I :	:	I : I : I : I : I : I :	
Dd	65	NVLSTTRQLNLTCTRISTTPRPCCYSSSTEINLYICVKCEKNYPVAFAGIGRC	116		

```
Query Match          47.7% Score 277.5 DB 9 Length 117;
Best Local Similarity 48.2%; Pred.No. 1.9e-23;
Matches      54; Conservative    16; Mismatches   33; Indels     9; Gaps       4.
```

OY 1 MSMDLTFQKKALTRVDVDCNNIMSTNLF---HCKDKNTFYLSRPPVKATICKIILASK 56
.: : |::| :: |: :| : : .: || |::|| |::| :| :

Dd 7 MQMNAITPQQKIIINT-PLICHTIIDNNITYIGGCGCKRVNFTHISSATTVAIKCTGTVI-NL 64

OY 57 NVLTPTSEFYSLSDC--NVTSRPCKRYKLKSKTNSFCVTENADPAVFVGVC 105
|::| :| :| :| ::| ::| :| :| :| |::| |::| :| :

Dd 65 NVLSTRQLQNLTCRTSITSIPRPCYSSTETINLYICVKCEKNYPAHFAAGIGRC 116